

21. Apparatus according to Claim 20 wherein the optical fiber is a single-mode optical fiber.

22. An apparatus as in either Claim 20 or 21 in which the mirror means comprises a first micromachined scanning mirror to receive light from the optical fiber and scan the light along a first direction and a second micromachined scanning mirror to receive light from the first mirror and scan the light in an orthogonal direction.

23. An apparatus as in Claim 20 or 21 in which the mirror means comprises a frame which is supported by nitride hinges for rotation about a first axis, and a micromachined mirror supported from said frame by nitride hinges for rotation about an orthogonal axis and whereby said mirror scans the light at first and second orthogonal directions.

24. Apparatus according to Claim 20 or 21 wherein the beam is reflected back from said medium to said optical fiber along substantially the same optical path said beam took from said optical fiber to said medium.

25. Apparatus according to Claim 22 wherein the beam is reflected back from said medium to said optical fiber along substantially the same optical path said beam took from said optical fiber to said medium.

26. Apparatus according to Claim 23 wherein the beam is reflected back from said medium to said optical fiber along substantially the same optical path said beam took from said optical fiber to said medium.

Respectfully submitted,

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